

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: October 12, 2003, 13:00:31 ; Search time 321.958 Seconds
(without alignments)
7954.691 Million cell updates/sec

Title: US-09-646-561-9

Perfection score: 987

Sequence: 1 atgtatctcagatgcacat.....acaacagctactacacagttt 987

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1731049 seqs, 1297405648 residues

Total number of hits satisfying chosen parameters: 3462098

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

result No.	Score	Query Match	Length	ID	Description
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2	772.8	78.3	1080	9	US-09-303-040-5
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5	575.2	58.3	1002	14	US-10-105-504A-33
6	575.2	58.3	1002	14	US-10-105-678A-33
7	575.2	58.3	1112	11	US-09-441-411-25
8	575.2	58.3	1120	8	US-08-592-711-3
9	575.2	58.3	1120	9	US-09-837-867A-22
10	575.2	58.3	1120	11	US-09-962-969-22
11	575.2	58.3	1120	11	US-09-350-202-3
12	575.2	58.3	1161	9	US-09-837-867A-24
13	575.2	58.3	1161	11	US-09-962-969-24
14	570.2	57.8	1424	9	US-09-962-436-556
15	570.2	57.8	1424	10	US-09-954-531-366
16	570.2	57.8	1424	11	US-09-441-411-21

17	570.2	57.8	1424	14	US-10-207-655-120
18	565.2	57.3	972	10	US-09-826-025-11
19	463.8	47.0	751	12	US-10-266-463A-34
20	463.8	47.0	751	14	US-10-105-200A-34
21	463.8	47.0	751	14	US-10-105-504A-34
22	463.8	47.0	751	14	US-10-105-678A-34
23	463.8	47.0	831	10	US-09-845-899A-4
24	453.8	46.0	738	14	US-10-060-585-4
25	453.8	46.0	1056	10	US-09-756-983-17
26	344.4	34.9	1151	9	US-09-837-867A-20
27	344.4	34.9	1151	11	US-09-962-969-20
28	344.4	34.9	1183	11	US-09-441-411-23
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30	338.6	34.3	598	14	US-10-040-862-7754
31	337.2	34.2	1261	9	US-09-837-867A-12
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33	326.8	33.1	551	10	US-09-796-692-7817
34	326.8	33.1	551	14	US-10-040-862-7817
35	103.4	10.5	210	9	US-09-837-867A-31
36	103.4	10.5	210	11	US-09-962-969-31
37	45	4.6	195	9	US-09-837-867A-41
38	45	4.6	195	11	US-09-962-969-41
39	42.2	4.3	8530	12	US-10-311-455-405
40	38.6	3.9	610	10	US-09-796-692-5460
41	38.6	3.9	610	14	US-10-040-862-5460
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ALIGNMENTS

RESULT 1

US-09-303-510-5

; Sequence 5, Application US/09303510A

; Patent No. US20020028208A1

; GENERAL INFORMATION:

; APPLICANT: Collisison, Ellen W.

; APPLICANT: Hash, Stephen M.

; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, and Feline

; TITLE OF INVENTION: CTLA-4 Nucleic Acid and Polypeptides

; FILE REFERENCE: 54954

; CURRENT APPLICATION NUMBER: US/09/303,510A

; CURRENT FILING DATE: 1999-04-30

; EARLIER APPLICATION NUMBER: 60/083,869

; EARLIER FILING DATE: 1998-05-01

; NUMBER OF SEQ ID NOS: 83

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 5

; LENGTH: 1080

; TYPE: DNA

; ORGANISM: Feline

; US-09-303-510-5

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Best Local Similarity 88.8%; Pred. No. 5.3e-228;

Matches 860; Conservative 0; Mismatches 102; Indels 6; Gaps 2;

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Qy 74 CCATGAGAGCTCAAGCATATTTCAACAGACTCGAGACTGCCATGCCATTTTACAAAT 133

Db 139 CCATGAGAGCTCAAGCATATTTCAACAGACTCGAGACTGCCATGCCATTTTACAAAT 198

Qy 134 CTCAAAACATAAGCCTGGATGAGTGTGGTAGTGTGTTTGGCAGGACCAAGGATAAGCTGTTTC 193

Db 199 CTCAAAACATAAGCCTGGATGAGTGTGGTAGTGTGTTTGGCAGGACCAAGGATAAGCTGTTTC 258

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: October 12, 2003, 13:00:31 ; Search time 274.007 Seconds
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Title: US-09-646-561-19
 Perfect score: 840
 Sequence: 1 atgtattctcagatgcactat.....acaacagctactacacagttt 840

Scoring table: IDENTITY NUC
 Gapop 10.0 , Gapext 1.0

Searched: 1731049 seqs, 1297405648 residues

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 Maximum Match 100%
 Listing first 45 summaries

Result No.	Score	Query	Length	ID	Description
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2	582.2	69.3	1080	9	US-09-303-040-5
3	463.8	55.2	751	12	US-10-266-463A-34
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6	463.8	55.2	751	14	US-10-105-678A-34
7	463.8	55.2	831	10	US-09-845-899A-4
8	463.8	55.2	1002	12	US-10-266-463A-33
9	463.8	55.2	1002	14	US-10-105-200A-33
10	463.8	55.2	1002	14	US-10-105-504A-33
11	463.8	55.2	1002	14	US-10-105-678A-33
12	463.8	55.2	1112	11	US-09-441-411-25
13	463.8	55.2	1120	8	US-08-592-711-3
14	463.8	55.2	1120	9	US-09-837-867A-22
15	463.8	55.2	1120	11	US-09-962-969-22
16	463.8	55.2	1120	11	US-09-350-202-3

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Database : Published Applications NA:*

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18	463.8	55.2	1161	11	US-09-962-969-24	Sequence 24, Appl
19	458.8	54.6	1424	9	US-09-962-436-556	Sequence 556, App
20	458.8	54.6	1424	10	US-09-954-531-366	Sequence 366, App
21	458.8	54.6	1424	11	US-09-441-411-21	Sequence 21, Appl
22	458.8	54.6	1424	14	US-10-207-655-120	Sequence 120, Appl
23	453.8	54.0	738	14	US-10-060-585-4	Sequence 4, Appl
24	453.8	54.0	972	10	US-09-826-025-11	Sequence 11, Appl
25	453.8	54.0	1056	10	US-09-756-983-17	Sequence 17, Appl
26	344.4	41.0	1151	9	US-09-837-867A-20	Sequence 20, Appl
27	344.4	41.0	1151	11	US-09-962-969-20	Sequence 20, Appl
28	344.4	41.0	1183	11	US-09-441-411-23	Sequence 23, Appl
29	338.6	40.3	598	10	US-09-796-692-7754	Sequence 7754, Ap
30	338.6	40.3	598	14	US-10-040-862-7754	Sequence 7754, Ap
31	337.2	40.1	1261	9	US-09-837-867A-12	Sequence 12, Appl
32	337.2	40.1	1261	11	US-09-962-969-12	Sequence 12, Appl
33	326.8	38.9	551	10	US-09-796-692-7817	Sequence 7817, Ap
34	326.8	38.9	551	14	US-10-040-862-7817	Sequence 7817, Ap
35	86.4	10.3	210	9	US-09-837-867A-31	Sequence 31, App-
36	86.4	10.3	210	11	US-09-962-969-31	Sequence 31, Appl
37	45	5.4	195	9	US-09-837-867A-41	Sequence 41, Appl
38	45	5.4	195	11	US-09-962-969-41	Sequence 41, Appl
39	42.2	5.0	8530	12	US-10-311-455-405	Sequence 405, App
40	37.8	4.5	6282	12	US-10-311-455-427	Sequence 427, App
41	37	4.4	5228	12	US-10-311-455-1628	Sequence 1628, Ap
42	36.8	4.4	650	13	US-10-027-632-196314	Sequence 196314,
43	36.8	4.4	6270	12	US-10-311-455-1845	Sequence 1845, Ap
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45	36.4	4.3	271990	14	US-10-195-144-87	Sequence 87, Appl

ALIGNMENTS

RESULT 1

US-09-303-510-5

; Sequence 5, Application US/09303510A

; Patent No. US20020028208A1

; GENERAL INFORMATION:

; APPLICANT: Collisson, Ellen W.

; APPLICANT: Hash, Stephen M.

; APPLICANT: Choi, Insoo

; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, and Feline

; TITLE OF INVENTION: CTLA-4 Nucleic Acid and Polypeptides

; FILE REFERENCE: 54954

; CURRENT APPLICATION NUMBER: US/09/303,510A

; CURRENT FILING DATE: 1999-04-30

; EARLIER APPLICATION NUMBER: 60/083,869

; EARLIER FILING DATE: 1998-05-01

; NUMBER OF SEQ ID NOS: 83

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 5

; LENGTH: 1080

; TYPE: DNA

; ORGANISM: Feline

US-09-303-510-5

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QY	74	CCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGCCATGCCATTTTACAAATT	133
Db	139	CCATGAAGAGTCAAGCATATTTTCAACAGACTGGAGAACTGCCATGCCATTTTACAAACT	198

QY	134	CTCAAAACATGAAGCTGGATGAGTGTGTAGTGTGTTGGAGGACAGGATAAGCTGTTTC	193
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QY 254 GCACAAAGCTTTGACAAAGAGAAATTTGGACCTCGAGATCTCCATATATTTTCAGATCAAGGACA 313
DB 319 GTACAAAGCTTTGACAAAGAGAAATTTGGACCTCGAGATCTCCATATATTTTCAGATCAAGGACA 378
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DB 379 AGGCAACATATCACTGTTTCATTCATTAATTAAGAGGCCCCAAAGGAGCTAGTTCCCATGCACC 438
QY 374 AGATGAATTTGACCTATCAGTGTCTGCTTAACCTTCAGTCAACCTGAAATTAAGTAACTT 433
DB 439 AAATGAGTTCGAGCTATCAGTGTCTGCTTAACCTTCAGTCAACCTGAAATTAAGTAACTT 498
QY 434 CTAATAGAACAGAAATTTCTGGCATCATATAATTTGACCTGCTCATCATCAAGGTTACC 493
DB 499 CTAATAGAACAGAAATTTCTGGCATCATATAATTTGACCTGCTCATCATCAAGGTTACC 558
QY 494 CAGAACCCAGGAGATGTTATTTTGGTAAACCGAGAAATTCAGTCACTAAGTATGATA 553
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QY 554 CTGTCTCAGTCCCTGAAAGCAAGCAATGTGAGCATCTTCTGTGCTGCAACTTGAAGTCAA 673
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QY 674 T--GAAGCTTCCCTCCCTACCTTATATATAGAACCAACCAAGTGGAGAGAA 725
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RESULT 2
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; Sequence 5, Application US/09303040
; Patent No. US20020051792A1
; GENERAL INFORMATION:
; APPLICANT: Cochran, Mark D.
; APPLICANT: Wirslow, Barbara J.
; TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, Feline CTLA-4 or
; TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof
; FILE REFERENCE: 54957-B
; CURRENT APPLICATION NUMBER: US/09/303,040
; CURRENT FILING DATE: 1999-04-30
; EARLIER APPLICATION NUMBER: 60/083,870
; EARLIER FILING DATE: 1998-05-01
; NUMBER OF SEQ ID NOS: 82
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 1080
; TYPE: DNA
; ORGANISM: feline CD86
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (63)...(1052)
US-09-303-040-5

Query Match 69.3%; Score 582.2; DB 9; Length 1080;
Best Local Similarity 89.4%; Pred. No. 1.le-164;
Matches 639; Conservative 0; Mismatches 73; Indels 3; Gaps 1;

QY 14 GCACATAGGAAGTCAATTAACATTTCTTTTGTGATGACCCCTCTGCTCTATGGTCTGCTT 73
DB 79 GCACATAGGAAGTCAATTAACATTTCTTTTGTGATGACCCCTCTGCTCTATGGTCTGCTT 138
QY 74 CCATGAGAGTCAAGCATATTTCAACAGAGCTGAGAGACTGCCATGCCATTTTACAAAT 133
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RESULT 3
US-10-266-463A-34
; Sequence 34, Application US/10266463A
; Publication No. US20030138946A1
; GENERAL INFORMATION:
; APPLICANT: Cai, Zeling
; APPLICANT: SPRENT, Jonathan
; APPLICANT: BRUNMARK, Anders
; APPLICANT: JACKSON, Michael
; APPLICANT: PETERSON, Per A.
; APPLICANT: LOREMBOURG, Alain
; APPLICANT: LETURCO, Didier Jean
; APPLICANT: MORIARTY, Ann M.
; TITLE OF INVENTION: ANTIGEN PRESENTING SYSTEM AND METHODS
; TITLE OF INVENTION: FOR ACTIVATION OF T-CELLS
; FILE REFERENCE: TSRI 471.1 Div. 1
; CURRENT APPLICATION NUMBER: US/10/266,463A
; CURRENT FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: US 08/913,612
; PRIOR FILING DATE: 1997-09-08
; PRIOR APPLICATION NUMBER: PCT/US96/03249
; PRIOR FILING DATE: 1996-03-08
; PRIOR APPLICATION NUMBER: US 08/400,338
; PRIOR FILING DATE: 1995-03-08
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 34
; LENGTH: 751
; TYPE: DNA
; ORGANISM: Homo Sapiens
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GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: October 12, 2003, 13:00:26 ; Search time 64.8605 Seconds
(without alignments)
5716.299 Million cell updates/sec

Title: US-09-646-561-19

Perfect score: 840

Sequence: 1 atgtatctcagatgcactat.....acaacagctactacagttt 840

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 20:00000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA: *
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Yatch	Length	DB ID	Description
1	582.2	69.3	1380	4	US-09-303-040-5
2	463.8	55.2	751	3	US-09-039-982A-34
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ALIGNMENTS

RESULT 1

US-09-303-040-5

; Sequence 5, Application US/09303040

; Patent No. 655671

; GENERAL INFORMATION:

; APPLICANT: Winslow, Barbara J.

; APPLICANT: Cochran, Mark D.

; TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding

; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, Feline CTLA-4 or

; TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof

; FILE REFERENCE: 54957-B

; CURRENT APPLICATION NUMBER: US/09/303,040

; CURRENT FILING DATE: 1999-04-30

; EARLIER APPLICATION NUMBER: 60/083,870

; EARLIER FILING DATE: 1998-05-01

; NUMBER OF SEQ ID NOS: 82

; SOFTWARE: Patentin Ver. 2.0

; SEQ ID NO 5

; LENGTH: 1080

; TYPE: DNA

; ORGANISM: feline CD86

; FEATURE: CDS

; NAME/KEY: CDS

; LOCATION: (63)..(1052)

US-09-303-040-5

Query Match 69.3%; Score 582.2; DB 4; Length 1080;

Best Local Similarity 89.4%; Pred. No. 1.2e-172;

Matches 639; Conservative 0; Mismatches 73; Indels 3; Gaps 1;

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Qy 74 CCATGAGAGCTCAAGCATATTTTCAACAGCTGAGAACTGCCATGCCATTTTACAAAT 133

Db 139 CCATGAGAGCTCAAGCATATTTTCAACAGCTGAGAACTGCCATGCCATTTTACAACT 198

Qy 134 CTCAAAACATTAACCTGGATGAGTGTGTAGTGTGTTGGCAGGACCAAGGATAAGCTGTTTC 193

Db 199 CTCAAAACATTAACCTGGATGAGTGTGTAGTGTGTTGGCAGGACCAAGGATAAGCTGTTTC 258

Qy 194 TGTACGAGCTTATACAGAGGCAAGAACCCCTCAAAATGTTTCATCGCAAGTATAAGGGCC 253

Db 259 TGTATCAGATATTTACAGAGGCAAGAACCCCTCAAAATGTTTCATCTCAATATAAGGGCC 318

Qy 254 GCACAGCTTTGCAAGAGCAATTTGACCCCTGAGATCCATATATTTTTCAGATCAAGGACA 313

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Sequence 20, Appl

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Sequence 22, Appl

Sequence 22, Appl

Sequence 22, Appl

Sequence 12, Appl

Sequence 12, Appl

Sequence 44, Appl

Sequence 44, Appl

Sequence 46, Appl

Sequence 46, Appl

Sequence 31, Appl

Sequence 31, Appl

Sequence 41, Appl

Sequence 41, Appl

Sequence 41, Appl

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RESULT 2
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; Sequence 34, Application US/09039982A
; Patent No. 6225042
; GENERAL INFORMATION:
; APPLICANT: Cai, Zeling
; APPLICANT: Sprent, Jonathan
; APPLICANT: Brunmark, Anders
; APPLICANT: Jackson, Michael
; APPLICANT: Peterson, Per A
; TITLE OF INVENTION: ANTIGEN PRESENTING SYSTEM AND METHODS FOR ACTIVATION OF T-CELLS
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Olson & Hierl, Ltd.
; STREET: 20 No. 6225042th Wacker Drive, Suite 3000
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA: US/09/039,982A
; APPLICATION NUMBER: US/09/039,982A
; FILING DATE: 16-MAR-1998
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Olson, Arne M.
; REGISTRATION NUMBER: 30,203
; REFERENCE/DOCKET NUMBER: TSPR4710
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312) 580-1180
; TELEFAX: (312) 580-1189
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 751 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO

US-09-039-982A-34
Query Match 55.2%; Score 463.8; DB 3; Length 751;
Best Local Similarity 80.5%; Pred No. 1.4e-135;
Matches 569; Conservative 0; Mismatches 132; Indels 6; Gaps 2;
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DB 127 CAATTTGCAAACTCTCAAAACCAAGCCTGAGTGAGTAGTAGTATTTTGGCAGGACCAAG 186
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QY 301 CAGATCAAGCAAGAGGCTTTGTATCAATGTTTCGTTTCATCATTAAGGGGCCCAAGAGACT 360
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DB 664 CTGGAACCTGACAGAGCGCGCTTTTATCTTCACCTTCTCTATAGA 710

RESULT 3
US-09-039-641-34
; Sequence 34, Application US/09039641
; Patent No. 6251627
; GENERAL INFORMATION:
; APPLICANT: Cai, Zeling
; APPLICANT: Sprent, Jonathan
; APPLICANT: Brunmark, Anders
; APPLICANT: Jackson, Michael
; APPLICANT: Peterson, Per A
; TITLE OF INVENTION: ANTIGEN PRESENTING SYSTEM AND METHODS FOR
; ACTIVATION OF T-CELLS
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Olson & Hierl, Ltd.
; STREET: 20 No. 6251627th Wacker Drive, Suite 3000
; CITY: Chicago
; STATE: Illinois

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(without alignments)
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Title: US-09-646-561-28

Perfect score: 996

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Published Applications NA:*

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17: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	979.2	98.3	1080	9	US-09-303-040-5
3	553	55.5	1424	9	US-09-962-436-556
4	553	55.5	1424	10	US-09-954-531-366
5	553	55.5	1424	11	US-09-441-411-21
6	553	55.5	1424	14	US-10-207-655-120
7	540	54.2	1002	12	US-10-266-463A-33
8	540	54.2	1002	14	US-10-105-200A-33
9	540	54.2	1002	14	US-10-105-504A-33
10	540	54.2	1002	14	US-10-105-678A-33
11	540	54.2	1112	11	US-09-441-411-25
12	540	54.2	1120	8	US-08-592-711-3
13	540	54.2	1120	9	US-09-837-867A-22
14	540	54.2	1120	11	US-09-962-969-22
15	540	54.2	1120	11	US-09-350-202-3
16	540	54.2	1161	9	US-09-837-867A-24

17	540	54.2	1161	11	US-09-962-969-24	Sequence 24, Appl
18	535	53.7	972	10	US-09-826-025-11	Sequence 11, Appl
19	434.6	43.6	751	12	US-10-266-463A-34	Sequence 34, Appl
20	434.6	43.6	751	14	US-10-105-200A-34	Sequence 34, Appl
21	434.6	43.6	751	14	US-10-105-504A-34	Sequence 34, Appl
22	434.6	43.6	751	14	US-10-105-678A-34	Sequence 34, Appl
23	434.6	43.6	831	10	US-09-845-899A-4	Sequence 4, Appl
24	429.6	43.1	738	14	US-10-060-585-4	Sequence 4, Appl
25	429.6	43.1	1056	10	US-09-756-983-17	Sequence 17, Appl
26	330	33.1	1261	9	US-09-837-867A-12	Sequence 12, Appl
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28	329.6	33.1	1151	9	US-09-837-867A-20	Sequence 20, Appl
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31	327.2	32.9	598	10	US-09-796-692-7754	Sequence 7754, Ap
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33	313.8	31.5	551	10	US-09-796-692-7817	Sequence 7817, Ap
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37	59.6	6.0	185	9	US-09-837-867A-41	Sequence 41, Appl
38	59.6	6.0	195	11	US-09-962-969-41	Sequence 41, Appl
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C 40	41.8	4.2	5228	12	US-10-311-455-1628	Sequence 1628, Ap
C 41	41.4	4.2	6716	12	US-10-311-455-1756	Sequence 1756, Ap
C 42	40.4	4.1	1226	13	US-10-027-632-123717	Sequence 123717,
C 43	38.2	3.8	6590	12	US-10-311-455-1450	Sequence 1450, Ap
C 44	38	3.8	585	13	US-10-027-632-215627	Sequence 215627,
C 45	38	3.8	8996	12	US-10-240-453-310	Sequence 310, App

ALIGNMENTS

RESULT 1

US-09-303-510-5
; Sequence 5, Application US/09303510A
; Patent No. US20020028208A1
; GENERAL INFORMATION:
; APPLICANT: Collisison, Ellen W.
; APPLICANT: Hash, Stephen M.
; APPLICANT: Choi, Insoo
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, and Feline
; TITLE OF INVENTION: CTLA-4 Nucleic Acid and Polypeptides
; FILE REFERENCE: 54954
; CURRENT APPLICATION NUMBER: US/09/303,510A
; CURRENT FILING DATE: 1999-04-30
; EARLIER APPLICATION NUMBER: 60/083,869
; EARLIER FILING DATE: 1998-05-01
; NUMBER OF SEQ ID NOS: 83
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1080
; TYPE: DNA
; ORGANISM: Feline
US-09-303-510-5

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Best Local Similarity	99.7%	Pred. No.	4.2e-281				
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Gaps	0						
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Oy	61	CTCTCTGGTGTCTTTCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGCCA	120				
Db	123	CTCTCTGGTGTCTTTCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGCCA	182				
Oy	121	TGCATTTTCAAACTCTCAAAACATAGCGCTGGAGCTGCTAGCTATTTTGGCAGGAC	180				
Db	183	TGCATTTTCAAACTCTCAAAACATAGCGCTGGAGCTGCTAGCTATTTTGGCAGGAC	242				

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Db 243 CAGGATAAGCTGGTCTGATGATATTCAGAGGCAAGAGAACCCCTCAAAATGTTTCAT 302
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QY 301 GTTCAGATCAAGGACAAGGGCAATATCATCTGTTTCATTCATATTAAGAGGGCCCAAGGA 360
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QY 481 TCTATACAAAGGTTACCCGAACTTAAGGAGATGATTTTCAGCTAAACACTGAGAAATTC 540
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RESULT 2

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US-09-303-040-5
; Sequence 5, Application US/09303040
; Patent No. US20020051792A1
; GENERAL INFORMATION:
; APPLICANT: Winslow, Barbara J.
; APPLICANT: Cochran, Mark D.
; TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding
; TITLE OF INVENTION: Feline CD86, Feline CD86, Feline CD86, Feline CD86 or
; TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof
; FILE REFERENCE: 54957-B
; CURRENT APPLICATION NUMBER: US/09/303,040
; CURRENT FILING DATE: 1999-04-30
; EARLIER APPLICATION NUMBER: 60/083,870
; EARLIER FILING DATE: 1998-05-01
; NUMBER OF SEQ ID NOS: 82
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; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 1080
; TYPE: DNA
; ORGANISM: feline CD86
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (63)..(1052)
US-09-303-040-5

Query Match      98.3%; Score 979.2; DB 9; Length 1080;
Best Local Similarity 99.7%; Pred. No 4.2e-281;
Matches 981; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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QY 61 CTCTCTGGTGTCTTCTCCATGAGAGTCAAGCATATTTCAACAGAGCTGAGAACTGCCA 120
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QY 121 TGCCATTTTACAAACTCTCAAAACATAAAGCTGGATGAGCTGCTAGTATTTTGGCAGGAC 180
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Db 843 GTTGTGTTTGTGGGATGGTGTCTTTTAAACACTAAGGAAAGGAAAGAGAGAGCGCT 902
QY 841 GCGCCCTCTCATGAATGTGAAACCATCAAGGGGAGAGAAAGAGAGAGAGAGAGAGAG 900
Db 903 GCGCCCTCTCATGAATGTGAAACCATCAAGGGGAGAGAAAGAGAGAGAGAGAGAGAGAG 962
QY 901 GAAAGAGTACCATACACGCTACCTGAGAGATCTGATGAAGCCAGTGTATTAAACAATTTG 960
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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: October 12, 2003, 13:00:26 ; Search time 76.906 Seconds
(without alignments)
5716.299 Million cell updates/sec

Title: US-09-646-561-28

Perfect score: 996

Sequence: 1 atggggcatttgtagcagcac.....acaaagtactacacattttt 996

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents_NA.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	553	55.5	1424	US-09-328-186B-226	Sequence 226, App
3	553	55.5	1428	PCT-US94-09642-1	Sequence 1, Appli
4	540	54.2	1002	US-09-039-982A-33	Sequence 33, Appli
5	540	54.2	1002	US-09-039-641-33	Sequence 33, Appli
6	540	54.2	1002	US-09-039-762A-33	Sequence 33, Appli
7	540	54.2	1002	US-09-042-492D-33	Sequence 33, Appli
8	540	54.2	1002	US-08-913-612A-33	Sequence 33, Appli
9	540	54.2	1120	US-08-456-104-1	Sequence 1, Appli
10	540	54.2	1120	US-08-101-624-1	Sequence 1, Appli
11	540	54.2	1120	US-08-479-744A-1	Sequence 1, Appli
12	540	54.2	1120	US-08-280-757B-1	Sequence 1, Appli
13	540	54.2	1120	US-08-205-697A-22	Sequence 22, Appli
14	540	54.2	1120	US-08-702-525-22	Sequence 22, Appli
15	540	54.2	1120	US-08-403-253A-3	Sequence 3, Appli
16	540	54.2	1120	US-08-435-816A-3	Sequence 3, Appli
17	540	54.2	1120	PCT-US95-02576-22	Sequence 22, Appli
18	540	54.2	1161	US-08-205-697A-24	Sequence 24, Appli
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21	535	53.7	972	US-08-848-760B-11	Sequence 11, Appli
22	434.6	43.6	751	US-09-039-982A-34	Sequence 34, Appli
23	434.6	43.6	751	US-09-039-641-34	Sequence 34, Appli
24	434.6	43.6	751	US-09-039-762A-34	Sequence 34, Appli
25	434.6	43.6	751	US-09-042-492D-34	Sequence 34, Appli
26	434.6	43.6	751	US-08-913-612A-34	Sequence 34, Appli
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29	330	33.1	1261	5	PCT-US95-02576-12	Sequence 12, Appli
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31	329.6	33.1	1151	3	US-08-205-697A-20	Sequence 20, Appli
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34	329.6	33.1	1163	3	US-08-479-744A-22	Sequence 22, Appli
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36	225	22.6	330	3	US-08-479-744A-44	Sequence 44, Appli
37	225	22.6	330	3	US-08-280-757B-44	Sequence 44, Appli
38	159	16.0	306	3	US-08-479-744A-46	Sequence 46, Appli
39	159	16.0	306	3	US-08-280-757B-46	Sequence 46, Appli
40	101.8	10.2	210	3	US-08-205-697A-31	Sequence 31, Appli
41	101.8	10.2	210	3	US-08-702-525-31	Sequence 31, Appli
42	101.8	10.2	210	5	PCT-US95-02576-31	Sequence 31, Appli
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44	59.6	6.0	195	3	US-08-702-525-41	Sequence 41, Appli
45	59.6	6.0	195	5	PCT-US95-02576-41	Sequence 41, Appli

ALIGNMENTS

RESULT 1

US-09-303-040-5

; Sequence 5, Application US/09303040

; Patent No. 6555671

; GENERAL INFORMATION:

; APPLICANT: Winslow, Barbara J.

; APPLICANT: Cochran, Mark D.

; TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding

; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, Feline CTLA-4 or

; FILE OF INVENTION: Feline Interferon-gamma And Uses Thereof

; FILE REFERENCE: 54957-B

; CURRENT APPLICATION NUMBER: US/09/303,040

; CURRENT FILING DATE: 1999-04-30

; EARLIER APPLICATION NUMBER: 60/083,870

; EARLIER FILING DATE: 1998-05-01

; NUMBER OF SEQ ID NOS: 82

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 5

; LENGTH: 1080

; TYPE: DNA

; ORGANISM: feline CD86

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (63)..(1052)

US-09-303-040-5

Query Match 98.3%; Score 979.2; DB 4; Length 1080;
Best Local Similarity 99.7%; Pred. No. 2.4e-289;
Matches 98; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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Qy	121	TGCATTTTACAAACTCTCAAAACATAAGCTGGATGGTGGTAGTATTTTGGCAGGAC 180
Db	183	TGCATTTTACAAACTCTCAAAACATAAGCTGGATGGTGGTAGTATTTTGGCAGGAC 242
Qy	181	CAGGATAAGCTGGTCTCTGATGAGATATTCAGAGGCAAGAACCCCTCAAAATGTTTAT 240
Db	243	CAGGATAAGCTGGTCTCTGATGAGATATTCAGAGGCAAGAACCCCTCAAAATGTTTAT 302
Qy	241	CTCAATATTAAGGGCGGTACAAGCTTTTGA CAGGACAACTGGACCCCTGAGACTCCCAAT 300
Db	303	CTCAATATTAAGGGCGGTACAAGCTTTTGA CAGGACAACTGGACCCCTGAGACTCCCAAT 362

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D5 |||||
QY 361 CTAGTTCCTCCATGACCAAAATGAGTCTCGACCTATCAGTGTCTGCTAACTTCAGTCAACCT 420
D5 |||||
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D5 |||||
QY 421 GAAATTAACAGTAACTTCTTAATAGAAAGAAATTCCTGGCATATAAATTTGACCTGCTCA 480
D5 |||||
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D5 |||||
QY 481 TCTATACAAAGTTTACCCAGAACCTTAAGGAGATGATTTTCAGTAAACACTCAGAAATCA 540
D5 |||||
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D5 |||||
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QY 603 ACTTACTAAGTATGATCTGTCAATGAAGAAATTCCTGAGTAAATGTCAGAACTGTACAAC 662
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QY 601 GTTCTCTATCAGCTTGCTTTTTCAGTCCCTGAAGACACAAATGTCAGCTCTTTTGTGCC 660
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QY 721 AAGGATAAAGACCTGAAACAGGCCACTTCTCTGAGTGTGCGCTGTACTTGTATGTTT 780
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; Sequence 226, Application US/09326186B
; Patent No. 6319906
; GENERAL INFORMATION:
; APPLICANT: Bennett, Clarence Frank
; APPLICANT: Vickers, Timothy A.
; TITLE OF INVENTION: Oligonucleotide Compositions and Methods for the
; TITLE OF INVENTION: Modulation of the Expression of B7 Protein
; FILE REFERENCE: ISPH-0376
; CURRENT APPLICATION NUMBER: US/09/326,186B
; CURRENT FILING DATE: 1999-06-04
; PRIOR FILING DATE: 1996-12-31
; NUMBER OF SEQ ID NOS: 226
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 226
; LENGTH: 1424
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-326-186B-226
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D5 |||||
QY 64 TCTGCTGTTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGCCATGC 123
D5 |||||
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D5 |||||
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D5 |||||
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D5 |||||
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D5 |||||
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D5 |||||
QY 244 AATATAAGGGCGCTCAAGCTTTTGACAGGCAAACTGGACCTGAGACTCCCAATGTT 303
D5 |||||
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D5 |||||
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D5 |||||
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D5 |||||
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D5 |||||
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RESULT 3
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GenCore version 5.1.6
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7954.691 Million cell updates/sec

Title: US-09-646-561-30
Perfect score: 509
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1731049 seqs, 1297405648 residues

Total number of hits satisfying chosen parameters: 3462098

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	496.2	97.5	1080	9	US-09-303-040-5 Sequence 5, Appl
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4	212.6	41.8	1002	12	US-10-266-463A-33 Sequence 33, Appl
5	212.6	41.8	1002	14	US-10-105-200A-33 Sequence 33, Appl
6	212.6	41.8	1002	14	US-10-105-504A-33 Sequence 33, Appl
7	212.6	41.8	1002	14	US-10-105-678A-33 Sequence 33, Appl
8	212.6	41.8	1112	11	US-09-441-411-25 Sequence 25, Appl
9	212.6	41.8	1120	8	US-08-592-711-3 Sequence 3, Appl
10	212.6	41.8	1120	9	US-09-837-867A-22 Sequence 22, Appl
11	212.6	41.8	1120	11	US-09-962-969-22 Sequence 22, Appl
12	212.6	41.8	1120	11	US-09-350-202-3 Sequence 3, Appl
13	212.6	41.8	1161	9	US-09-837-867A-24 Sequence 24, Appl
14	212.6	41.8	1161	11	US-09-962-969-24 Sequence 24, Appl
15	212.6	41.8	1424	9	US-09-962-436-556 Sequence 556, App
16	212.6	41.8	1424	10	US-09-954-531-366 Sequence 366, App

17	212.6	41.8	1424	11	US-09-441-411-21	Sequence 21, Appl
18	212.6	41.8	1424	14	US-10-207-655-120	Sequence 120, Appl
19	110	21.6	738	14	US-10-060-585-4	Sequence 4, Appl
20	110	21.6	751	12	US-10-266-463A-34	Sequence 34, Appl
21	110	21.6	751	14	US-10-105-200A-34	Sequence 34, Appl
22	110	21.6	751	14	US-10-105-504A-34	Sequence 34, Appl
23	110	21.6	751	14	US-10-105-678A-34	Sequence 34, Appl
24	110	21.6	831	10	US-09-845-899A-4	Sequence 4, Appl
25	110	21.6	1056	10	US-09-756-983-17	Sequence 17, Appl
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27	99	19.4	210	11	US-09-962-969-31	Sequence 31, Appl
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33	36.4	7.2	2757	12	US-10-101-510-6	Sequence 6, Appl
34	36.4	7.2	2757	12	US-10-021-660-2	Sequence 2, Appl
35	36.4	7.2	2757	14	US-10-288-222A-1	Sequence 1, Appl
36	36	7.1	2139	11	US-09-822-846-225	Sequence 225, Appl
37	36	7.1	2183	14	US-10-037-270-668	Sequence 668, Appl
38	36	7.1	2345	9	US-09-799-777-146	Sequence 146, Appl
39	36	7.1	3175	9	US-09-853-161-49	Sequence 49, Appl
40	36	7.1	3175	9	US-09-852-659A-49	Sequence 49, Appl
41	36	7.1	3175	10	US-09-852-797-49	Sequence 49, Appl
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44	36	7.1	3259	10	US-09-852-797-31	Sequence 31, Appl
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ALIGNMENTS

RESULT 1
US-09-303-510-5
; Sequence 5, Application US/09303510A
; Patent No. US20020028208A1
; GENERAL INFORMATION:
; APPLICANT: Collisson, Ellen W.
; APPLICANT: Hash, Stephen M.
; APPLICANT: Choi, InSoo
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, and Feline CD28, and Polypeptides
; FILE REFERENCE: 54954
; CURRENT APPLICATION NUMBER: US/09/303,510A
; CURRENT FILING DATE: 1999-04-30
; EARLIER APPLICATION NUMBER: 60/083,869
; EARLIER FILING DATE: 1998-05-01
; NUMBER OF SEQ ID NOS: 83
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1080
; TYPE: DNA
; ORGANISM: Feline
US-09-303-510-5

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Matches 499;	Conservative 0;	Mismatches 0;	Gaps 0;	
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Qy	61	ACTAAGTATGATCTCTCATGAAGAAATCTCAAAATAATGTGACAGAACTGTACACGTT	120	
Db	606	ACTAAGTATGATCTCTCATGAAGAAATCTCAAAATAATGTGACAGAACTGTACACGTT	665	
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181 AAACCTGGAGACACTGGAGATGCTGCTCTCCCTACCTCTTCAATATATAGATGCACAACTTAAG 240
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726 AAACCTGGAGACACTGGAGATGCTGCTCTCCCTACCTCTTCAATATATAGATGCACAACTTAAG 785
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241 GATAAAGACCTGGAACAAGGCCACTTCTCTGGATTTGGGGCTGTACTTGTAAATGTTTGT 300
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786 GATAAAGACCTGGAACAAGGCCACTTCTCTGGATTTGGGGCTGTACTTGTAAATGTTTGT 845
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301 GTTTTGTGGGATGGTGTCTCTTTTAAACACACTAAGGAAAGAAAGAAAGAAAGAAAGAAAGAA 420
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846 GTTTTGTGGGATGGTGTCTCTTTTAAACACACTAAGGAAAGAAAGAAAGAAAGAAAGAAAGAA 905
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906 CCTCTCATGATGTGAACCATCAAAAGGGAGAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAA 965
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421 AGAGTACCATACCACTGCTGAGAGATCTGATGAAGCCAGTGTATTAACTTTTGAAG 480
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481 ACAGCCTCAGGCGCAAAAAGT 501
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RESULT 2
US-09-303-040-5
; Sequence 5, Application US/09303040
; Patent No. US20020051792A1
; GENERAL INFORMATION:
; APPLICANT: Winslow, Barbara J.
; APPLICANT: Cochran, Mark D.
; TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, Feline CTLA-4 or
; FILE REFERENCE: 54957-B
; CURRENT APPLICATION NUMBER: US/09/303,040
; CURRENT FILING DATE: 1999-04-30
; EARLIER APPLICATION NUMBER: 60/083,870
; EARLIER FILING DATE: 1998-05-01
; NUMBER OF SEQ ID NOS: 82
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 1080
; TYPE: DNA
; ORGANISM: feline CD86
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (63)..(1052)
US-09-303-040-5

Query Match 97.5%; Score 496.2; DB 9; Length 1080;
Best Local Similarity 99.4%; Pred. No. 1e-140;
Matches 498; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

1 ATACAGGTTACCCAGAACTAAGAGATGTATTTTCAGCTAAACACTGAGAAATCAACT 60
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546 ATACAGGTTACCCAGAACTAAGAGATGTATTTTCAGCTAAACACTGAGAAATCAACT 605
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61 ACTAAGTATGATCTGTATGATGAAGAAATCTCAAAATATATGTGACAGAACTGTACAACT 120
|||||
606 ACTAAGTATGATCTGTATGATGAAGAAATCTCAAAATATATGTGACAGAACTGTACAACT 665
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121 TCATCAGCTTGCCTTTTTCAGTCCCTGAAGCAGACAAATGTGAGCGTCTTTTGTCCCTG 180
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666 TCATCAGCTTGCCTTTTTCAGTCCCTGAAGCAGACAAATGTGAGCGTCTTTTGTCCCTG 725
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181 AAACCTGGAGACACTGGAGATGCTGCTCTCCCTACCTCTTCAATATATAGATGCACAACTTAAG 240
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726 AAACCTGGAGACACTGGAGATGCTGCTCTCCCTACCTCTTCAATATATAGATGCACAACTTAAG 785
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Db 786 GATAAAGACCTGGAACAAGGCCACTTCTCTCGATTTGGGCTGTACTTGTAAATGTTTGT 845
Qy 301 GTTTTGTGGGATGGTGTCTCTTTTAAACACACTAAGGAAAGAAAGAAAGAAAGAAAGAAAGAA 360
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Db 846 GTTTTGTGGGATGGTGTCTCTTTTAAACACACTAAGGAAAGAAAGAAAGAAAGAAAGAAAGAA 905
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Qy 361 CCTCTCATGATGTGAACCATCAAAAGGGAGAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAA 420
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Db 906 CCTCTCATGATGTGAACCATCAAAAGGGAGAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAA 965
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Db 1026 ACAGCCTCAGGCGCAAAAAT 1046
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RESULT 3
US-09-826-025-11
; Sequence 11, Application US/09826025
; Patent No. US20020162123A1
; GENERAL INFORMATION:
; APPLICANT: Chang, Lung-Ji
; TITLE OF INVENTION: Combination Immunogene Therapy
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Medlen & Carroll, LLP
; STREET: 220 Montgomery Street, Suite 2200
; CITY: San Francisco
; STATE: California
; COUNTRY: United States of America
; ZIP: 94104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE: 04-Apr-2001
; APPLICATION NUMBER: US/09/826,025
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/838,702
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Ingolia, Diane E.
; REGISTRATION NUMBER: 40,027
; REFERENCE/DOCKET NUMBER: CHANG-02687
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 705-8410
; TELEFAX: (415) 397-8338
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 972 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "DNA"
; SEQUENCE DESCRIPTION: SEQ ID NO: 11:
US-09-826-025-11

Query Match 41.8%; Score 212.6; DB 10; Length 972;
Best Local Similarity 69.0%; Pred. No. 2.9e-54;
Matches 354; Conservative 0; Mismatches 144; Indels 15; Gaps 4;

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GenCore version 5.1.6
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7954.691 Million cell updates/sec

Title: US-09-646-561-33

Perfect score: 359

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Searched: 1731049 seqs, 1297405648 residues

Total number of hits satisfying chosen parameters: 3462098

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Maximum Match 100%

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16: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*
17: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	227.2	63.3	1080	9	US-09-303-040-5
3	110	30.6	738	14	US-10-060-585-4
4	110	30.6	751	12	US-10-266-463A-34
5	110	30.6	751	14	US-10-105-200A-34
6	110	30.6	751	14	US-10-105-504A-34
7	110	30.6	751	14	US-10-105-678A-34
8	110	30.6	831	10	US-09-845-899A-4
9	110	30.6	972	10	US-09-828-025-11
10	110	30.6	1002	12	US-10-266-463A-33
11	110	30.6	1002	14	US-10-105-200A-33
12	110	30.6	1002	14	US-10-105-504A-33
13	110	30.6	1002	14	US-10-105-678A-33
14	110	30.6	1056	10	US-09-756-983-17
15	110	30.6	1112	8	US-09-441-411-25
16	110	30.6	1120	8	US-08-592-711-3

17	110	30.6	1120	9	US-09-837-867A-22	Sequence 22, Appl
18	110	30.6	1120	11	US-09-962-969-22	Sequence 22, Appl
19	110	30.6	1120	11	US-09-350-202-3	Sequence 3, Appl
20	110	30.6	1161	9	US-09-837-867A-24	Sequence 24, Appl
21	110	30.6	1161	11	US-09-962-969-24	Sequence 24, Appl
22	110	30.6	1424	9	US-09-962-436-556	Sequence 556, App
23	110	30.6	1424	10	US-09-954-531-366	Sequence 366, App
24	110	30.6	1424	11	US-09-441-411-21	Sequence 21, Appl
25	110	30.6	1424	14	US-10-207-655-120	Sequence 120, App
26	78	21.7	210	9	US-09-837-867A-31	Sequence 31, Appl
27	78	21.7	210	11	US-09-962-969-31	Sequence 31, Appl
28	77.2	21.5	1151	9	US-09-837-867A-20	Sequence 20, Appl
29	77.2	21.5	1151	11	US-09-962-969-20	Sequence 20, Appl
30	77.2	21.5	1183	11	US-09-441-411-23	Sequence 23, Appl
31	77.2	21.5	1261	9	US-09-837-867A-12	Sequence 12, Appl
32	77.2	21.5	1261	11	US-09-962-969-12	Sequence 12, Appl
c 33	36.4	10.1	1257	10	US-09-974-300-933	Sequence 933, App
c 34	36.2	10.1	855	13	US-10-027-632-136345	Sequence 136345,
c 35	35.2	9.8	1106	13	US-10-027-632-118801	Sequence 118801,
c 36	35	9.7	577	13	US-10-027-632-85887	Sequence 85887, A
c 37	35	9.7	577	13	US-10-027-632-178928	Sequence 178928,
c 38	35	9.7	577	13	US-10-027-632-316224	Sequence 316224,
c 39	34.6	9.6	11726	12	US-10-311-455-2036	Sequence 2036, Ap
c 40	34.4	9.6	420	10	US-09-960-352-13148	Sequence 13148, A
c 41	34.4	9.6	2710	9	US-09-800-729-16	Sequence 16, Appl
c 42	34.4	9.6	2752	9	US-09-800-729-50	Sequence 50, Appl
c 43	34.4	9.6	2752	11	US-09-832-123-27	Sequence 27, Appl
c 44	34.2	9.5	1246	10	US-09-887-576-59	Sequence 59, Appl
c 45	34.2	9.5	6012	12	US-10-311-455-2032	Sequence 2032, Ap

ALIGNMENTS

RESULT 1
US-09-303-510-5
; Sequence 5, Application US/09303510A
; Patent No. US20020028208A1
; GENERAL INFORMATION:
; APPLICANT: Collieson, Ellen W.
; APPLICANT: Hash, Stephen M.
; APPLICANT: Choi, Insoo
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, and Feline
; TITLE OF INVENTION: CTLA-4 Nucleic Acid and Polypeptides
; FILE REFERENCE: 54954
; CURRENT APPLICATION NUMBER: US/09/303,510A
; CURRENT FILING DATE: 1999-04-30
; EARLIER APPLICATION NUMBER: 60/083,869
; EARLIER FILING DATE: 1998-05-01
; NUMBER OF SEQ ID NOS: 83
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1080
; TYPE: DNA
; ORGANISM: Feline
US-09-303-510-5

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Best Local Similarity	94.8%	Pred. No.	1.7e-58;				
Matches	235;	Conservative	0;	Mismatches	13;	Indels	0;
Gaps	0;						
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Oy	61	ACTAAGTATGATCTGTGATGAAGAATCTCAAAATAATGTGACAGAATGTGACAACTT	120				
Db	606	ACTAAGTATGATCTGTGATGAAGAATCTCAAAATAATGTGACAGAATGTGACAACTT	665				
Oy	121	TCTATGAGTTGCTTTTTCAGTCCCTGAAGCACAATGTGAGCGTCTTTTGTGCGCTG	180				
Db	666	TCTATGAGTTGCTTTTTCAGTCCCTGAAGCACAATGTGAGCGTCTTTTGTGCGCTG	725				

QY	181	AAACTGGAGACACTGGAGATGCTGCTCTCCCTACTCTTCAATATAGAAACCCATCAAAAGG	240
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DB	786	GATAAAGA	793

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RESULT 2
US-09-303-040-5
; Sequence 5, Application US/09303040
; Patent No. US20020051792A1
; GENERAL INFORMATION:
; APPLICANT: Winslow, Barbara J.
; APPLICANT: Cochran, Mark D.
; TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, Feline CTLA-4 or
; TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof
; FILE REFERENCE: 54957-B
; CURRENT APPLICATION NUMBER: US/09/303,040
; CURRENT FILING DATE: 1999-04-30
; EARLIER APPLICATION NUMBER: 60/083,870
; EARLIER FILING DATE: 1998-05-01
; NUMBER OF SEQ ID NOS: 82
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 1080
; TYPE: DNA
; ORGANISM: feline CD86
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (63)..(1052)
US-09-303-040-5

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; CURRENT APPLICATION NUMBER: US/10/060,585
; CURRENT FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: US 09/445375
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: GB 9711579.4
; PRIOR FILING DATE: 1997-06-04
; PRIOR APPLICATION NUMBER: GB 9713150.2
; PRIOR FILING DATE: 1997-06-20
; PRIOR APPLICATION NUMBER: GB 9714230.1
; PRIOR FILING DATE: 1997-07-04
; PRIOR APPLICATION NUMBER: PCT/GB00/04317
; PRIOR FILING DATE: 2000-11-13
; PRIOR APPLICATION NUMBER: PCT/GB99/03859
; PRIOR FILING DATE: 1999-11-18
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 738
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: B7-2(1-241)
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US-10-060-585-4

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Best Local Similarity 73.5%; Pred. No. 4.8e-23;
Matches 169; Conservative 0; Mismatches 55; Indels 6; Gaps 2;

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Qy      61  ACTAAGTATGATACCTGTCATGAGAAATCTCAAAATAATGTGACAGAACTGTACAAAGTT 120
Db      520 ATCGATGATGATGTATTTATGCGAATCTCAGATAATGTACAGAACTGTACGAGTT 579
Qy      121 TCTATPACGTTGCCCTTTTCAGTCCTGGAAG---CACACAATGTGAGCGCTTTTGTGCC 177
Db      580 TCCATCAGCTTGTCTGTTTCATTCCTGATGTGTACGAGCAATATACCATCTTCTGTATT 639
Qy      178 CTGAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTCCAATATAGA 227
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RESULT 4
US-10-266-463A-34
; Sequence 34, Application US/10266463A
; Publication No. US20030138946A1
; GENERAL INFORMATION:
; APPLICANT: CAI, Zeling
; APPLICANT: SPRENT, Jonathan
; APPLICANT: BRUNMARK, Anders
; APPLICANT: JACKSON, Michael
; APPLICANT: PETERSON, Per A.
; APPLICANT: LUXEMBOURG, Alain
; APPLICANT: LETURCQ, Didier Jean
; APPLICANT: MORIARTY, Ann M.
; TITLE OF INVENTION: ANTIGEN PRESENTING SYSTEM AND METHODS
; TITLE OF INVENTION: FOR ACTIVATION OF T-CELLS
; FILE REFERENCE: TSRI 471.1 Div. 1
; CURRENT APPLICATION NUMBER: US/10/266,463A
; CURRENT FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: US 08/913,612
; PRIOR FILING DATE: 1997-09-08
; PRIOR APPLICATION NUMBER: PCT/US96/03249
; PRIOR FILING DATE: 1996-03-08
; PRIOR APPLICATION NUMBER: US 08/400,338
; PRIOR FILING DATE: 1995-03-08
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 34
; LENGTH: 751

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GenCore version 5.1.6
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Run on: October 12, 2003, 13:00:26 ; Search time 27.7201 Seconds
(without alignments)
5716.299 Million cell updates/sec

Title: US-09-646-561-33
Perfect score: 359
Sequence: 1 atacaaggtaccagaacc.....ggcgacaaaagtactacaca 359

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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5	110	30.6	751	US-09-039-641-34	Sequence 34, Appl
6	110	30.6	751	US-09-039-762A-34	Sequence 34, Appl
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8	110	30.6	751	US-08-313-612A-33	Sequence 33, Appl
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22	110	30.6	1120	US-08-435-816A-3	Sequence 3, Appli
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32	77.2	21.5	1151	2	US-08-456-104-3	Sequence 3, Appli
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34	77.2	21.5	1151	3	US-08-702-525-20	Sequence 20, Appl
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36	77.2	21.5	1163	3	US-08-479-744A-22	Sequence 22, Appl
37	77.2	21.5	1163	3	US-08-280-757B-22	Sequence 22, Appl
38	77.2	21.5	1261	3	US-08-205-697A-12	Sequence 12, Appl
39	77.2	21.5	1261	3	US-08-702-525-12	Sequence 12, Appl
40	77.2	21.5	1261	5	PCT-US95-02576-12	Sequence 12, Appl
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C 43	33.2	9.2	2728	4	US-09-232-160-1	Sequence 1, Appli
C 44	31.8	8.9	98844	4	US-09-791-211-10	Sequence 10, Appl
C 45	31.6	8.8	2709	4	US-09-107-532A-183	Sequence 183, App

ALIGNMENTS

RESULT 1

US-09-303-040-5
; Sequence 5, Application US/09303040
; Patent No. 655671
; GENERAL INFORMATION:
; APPLICANT: Winslow, Barbara J.
; APPLICANT: Cochran, Mark D.
; TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, Feline CTLA-4 or
; TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof
; FILE REFERENCE: 54957-B
; CURRENT APPLICATION NUMBER: US/09/303,040
; CURRENT FILING DATE: 1999-04-30
; EARLIER FILING DATE: 1998-05-01
; NUMBER OF SEQ ID NOS: 82
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 5
; LENGTH: 1080
; TYPE: DNA
; ORGANISM: feline CD86
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (63)..(1052)
US-09-303-040-5

Qy	1	ATACAGTTTACCAGAACCTAAGGAGATGTTTTCAGCTAAACACTGAGAAATTCACCT	60
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Qy	61	ACTAAGTATCATCTGTCTGAAGAAATCTCAAAATATGTGACAACTGTACACAGTT	120
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Qy	121	TCATCAGTTGCGCTTTTTCAGTCCCTGAAGCACAAATGTGAGCGTCTTTTGTGCGCTG	180
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Qy	181	AACTGAGACATGAGATGCTGCTCCCTACCTTTCAATATAGAAACCATCAAAAGG	240
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; Sequence 46, Application US/08280757B
; Patent No. 6130316
; GENERAL INFORMATION:
; APPLICANT: Freeman, Gordon J.
; APPLICANT: Nadler, Lee M.
; APPLICANT: Gray, Gary S.
; APPLICANT: Greenfield, Edward
; TITLE OF INVENTION: No. 6130316el CTLA4/CD28 Ligands and
; TITLE OF INVENTION: Uses Therefor
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, Suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/280,757B
; FILING DATE: 26-JUL-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/101,624
; FILING DATE: 26-JULY-1993
; APPLICATION NUMBER: 08/109,393
; FILING DATE: 19-AUG-1993
; APPLICATION NUMBER: 08/147,773
; FILING DATE: 3-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragoras, Amy E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: RPI-004CP2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 46:
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; LENGTH: 306 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..310
; US-08-280-757B-46

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Matches 169; Conservative 0; Mismatches 55; Indels 6; Gaps 2;

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Db      79  ATACACGTTTACCAGAACCTTAGAAGATGAGTGTTCCTTAAGAACCAACGAATTCAACT 138
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Db      139  ATCCGATGATGATGTATTATGTGCAGAAATCTCAAGATAATGTACAGAACTGTACGACGTT 198
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Qy      121  TCTATCAGCTTGCCTTTTTCAGTCCTCGTAAG---CACAAATGTGAGCGGCTTTTGTGCC 177
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102 US-08-772-440-38 Sequence 38, Appl
103 US-09-134-001C-2587 Sequence 2587, Ap
104 US-09-370-838-17 Sequence 17, Appl
105 US-09-385-982-494 Sequence 494, App
106 US-09-221-017B-73 Sequence 73, Appl
107 US-09-070-060-9 Sequence 9, Appli
108 US-09-357-746-9 Sequence 263, App
109 US-09-328-111-263 Sequence 2, Appli
110 US-09-051-969A-2 Sequence 178, App
111 US-09-221-017B-178 Sequence 538, App
112 US-09-328-111-538 Sequence 572, App
113 US-09-221-017B-572 Sequence 2814, Ap
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118 US-08-325-630-8 Sequence 3, Appli
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132 US-09-205-258-43 Sequence 43, Appl
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134 US-09-620-312D-577 Sequence 7, Appli
135 US-09-016-434-1437 Sequence 577, App
136 US-09-019-046-3 Sequence 3, Appli
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141 US-09-265-315-60 Sequence 60, Appl
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143 US-09-266-417-60 Sequence 60, Appl
144 US-09-130-616-170 Sequence 170, App
145 US-09-002-298-4 Sequence 4, Appli
146 US-09-481-277-4 Sequence 1, Appli
147 US-08-461-823-1 Sequence 421, App
148 US-09-221-017B-421

ALIGNMENTS

RESULT 1
US-09-303-040-5
Sequence 5, Application US/09303040
Patent No. 6555671
GENERAL INFORMATION:
APPLICANT: Winslow, Barbara J.
APPLICANT: Cochran, Mark D.
TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding
TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, Feline CTLA-4 or
TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof
FILE REFERENCE: 54957-B
CURRENT APPLICATION NUMBER: US/09/303,040
CURRENT FILING DATE: 1999-04-30
EARLIER APPLICATION NUMBER: 60/083,870
EARLIER FILING DATE: 1998-05-01
NUMBER OF SEQ ID NOS: 82
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 5

LENGTH: 1080
TYPE: DNA
ORGANISM: feline CD86
FEATURE:
NAME/KEY: CDS
LOCATION: (63)..(1052)
US-09-303-040-5
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Best Local Similarity 100.0%; Pred. No. 0;
Matches 948; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db CTCTCTGGTGTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGCCA 182
QY 121 TGGCATTTTACAACTCTCAAAACATAAAGCTGGATGAGCTGGTAGTATTTTGGCAGGAC 180
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Db CAGGATAAGCTGGTCTGTATGAGATATTCAGAGGCAAGAGAACCTCAAAATGTTTCA 302
QY 241 CTCAATATTAAGGGCGGTACAAGCTTTGACAGGCAAACTGGACCTGAGACTCCCAAT 300
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QY 301 GTTCAGATCAAGGACAAAGGCAATATCACTGTTTCAATTAAGGGGCCAAAGGA 360
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QY 361 CTAGTTCCTCCATGACCAAAATGAGTCTGACCTATCACTGCTTAACCTTCAGTCAACCT 420
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111	16	1.6	1002	4	US-09-328-352-3654	Sequence 3654, Ap
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129	16	1.6	1856	4	US-09-205-258-52	Sequence 52, Appl
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132	16	1.6	1994	5	PCT-US94-10262A-22	Sequence 22, Appl
133	16	1.6	2001	4	US-09-328-352-1964	Sequence 1964, Ap
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135	16	1.6	2499	1	US-08-605-672-96	Sequence 96, Appl
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ALIGNMENTS

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RESULT 1
US-C9-303-040-5
; Sequence 5, Application US/09303040
; Patent No. 6555671
; GENERAL INFORMATION:
; APPLICANT: Winslow, Barbara J.
; APPLICANT: Cochran, Mark D.
; TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, Feline CTLA-4 or
; TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof
; FILE REFERENCE: 54957-B
; CURRENT APPLICATION NUMBER: US/09/303,040
; CURRENT FILING DATE: 1999-04-30
; EARLIER APPLICATION NUMBER: 60/383,870
; EARLIER FILING DATE: 1998-05-01
; NUMBER OF SEQ ID NOS: 92
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 5

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; LENGTH: 1080
; TYPE: DNA
; ORGANISM: feline CD86
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (63)..(1052)
US-C9-303-040-5

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Cb 196 A 196

RESULT 2
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; Sequence 34, Application US/09039982A
; Patent No. 6225042
; GENERAL INFORMATION:
; APPLICANT: Cai, Zeling
; APPLICANT: Sprent, Jonathan
; APPLICANT: Brunmark, Anders
; APPLICANT: Jackson, Michael
; APPLICANT: Peterson, Per A
; TITLE OF INVENTION: ANTIGEN PRESENTING SYSTEM AND METHODS FOR ACTIVATION
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:

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GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OX, nucleic - nucleic search, using sw model

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GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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; APPLICANT: Collisnon, Ellen W.
; APPLICANT: Hash, Stephen M.
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; APPLICANT: Choi, InSoo
; TITLE OF INVENTION: Feline CD86, Feline CD86, Feline CD28, and Feline
; TITLE OF INVENTION: CTLA-4 Nucleic Acid and Polypeptides
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; APPLICANT: Cochran, Mark D.
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; TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof
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